

**Environmental Protection Agency**

**Pt. 60, Subpt. AAAA, Table 1**

ownership or control includes properties that are owned, leased, or operated by the same entity, parent entity, subsidiary, subdivision, or any combination thereof. Entities may include a municipality, other governmental unit, or any quasi-governmental authority (for example, a public utility district or regional authority for waste disposal).

*Second calendar half* means the period that starts on July 1 and ends on December 31 in any year.

*Shift supervisor* means the person who is in direct charge and control of operating a municipal waste combustion unit and who is responsible for onsite supervision, technical direction, management, and overall performance of the municipal waste combustion unit during an assigned shift.

*Spreader stoker, mixed fuel-fired (coal/refuse-derived fuel) combustion unit* means a municipal waste combustion unit that combusts coal and refuse-derived fuel simultaneously, in which coal is introduced to the combustion zone by a mechanism that throws the fuel onto a grate from above. Combustion takes place both in suspension and on the grate.

*Standard conditions* when referring to units of measure mean a temperature of 20 °C and a pressure of 101.3 kilopascals.

*Startup period* means the period when a municipal waste combustion unit begins the continuous combustion of municipal solid waste. It does not include any warmup period during which the municipal waste combustion unit combusts fossil fuel or other solid waste fuel but receives no municipal solid waste.

*Stoker (refuse-derived fuel) combustion unit* means a steam generating unit that combusts refuse-derived fuel in a

semisuspension combusting mode, using air-fed distributors.

*Total mass dioxins/furans or total mass* means the total mass of tetra-through octachlorinated dibenzo-p-dioxins and dibenzofurans as determined using EPA Reference Method 23 in appendix A of this part and the procedures specified in §60.1300.

*Twenty-four hour daily average or 24-hour daily average* means either the arithmetic mean or geometric mean (as specified) of all hourly emission concentrations when the municipal waste combustion unit operates and combusts municipal solid waste measured during the 24 hours between 12:00 midnight and the following midnight.

*Untreated lumber* means wood or wood products that have been cut or shaped and include wet, air-dried, and kiln-dried wood products. Untreated lumber does not include wood products that have been painted, pigment-stained, or pressure-treated by compounds such as chromate copper arsenate, pentachlorophenol, and creosote.

*Waterwall furnace* means a municipal waste combustion unit that has energy (heat) recovery in the furnace (for example, radiant heat transfer section) of the combustion unit.

*Yard waste* means grass, grass clippings, bushes, shrubs, and clippings from bushes and shrubs. They come from residential, commercial/retail, institutional, or industrial sources as part of maintaining yards or other private or public lands. Yard waste does not include two items:

(1) Construction, renovation, and demolition wastes that are exempt from the definition of “municipal solid waste” in this section.

(2) Clean wood that is exempt from the definition of “municipal solid waste” in this section.

**TABLE 1 TO SUBPART AAAA OF PART 60—EMISSION LIMITS FOR NEW SMALL MUNICIPAL WASTE COMBUSTION UNITS**

For the following pollutants	You must meet the following emission limits <sup>a</sup>	Using the following averaging times	And determine compliance by the following methods
1. Organics Dioxins/Furans (total mass basis).	13 nanograms per dry standard cubic meter.	3-run average (minimum run duration is 4 hours).	Stack test.
2. Metals:			

For the following pollutants	You must meet the following emission limits <sup>a</sup>	Using the following averaging times	And determine compliance by the following methods
Cadmium .....	0.020 milligrams per dry standard cubic meter.	3-run average (run duration specified in test method).	Stack test.
Lead .....	0.20 milligrams per dry standard cubic meter.	3-run average (run duration specified in test method).	Stack test.
Mercury .....	0.080 milligrams per dry standard cubic meter or 85 percent reduction of potential mercury emissions.	3-run average (run duration specified in test method).	Stack test.
Opacity .....	10 percent .....	Thirty 6-minute averages	Stack test.
Particulate Matter .....	24 milligrams per dry standard cubic meter.	3-run average (run duration specified in test method).	Stack test.
3. Acid Gases:			
Hydrogen Chloride .....	25 parts per million by dry volume or 95 percent reduction of potential hydrogen chloride emissions.	3-run average (minimum run duration is 1 hour).	Stack test
Nitrogen Oxides (Class I units) <sup>b</sup> .	150 (180 for 1st year of operation) parts per million by dry volume.	24-hour daily block arithmetic average concentration.	Continuous emission monitoring system.
Nitrogen Oxides (Class II units) <sup>c</sup> .	500 parts per million by dry volume.	See footnote <sup>d</sup> .....	See footnote <sup>d</sup>
Sulfur Dioxide .....	30 parts per million by dry volume or 80 percent reduction of potential sulfur dioxide emissions.	24-hour daily block geometric average concentration or percent reduction.	Continuous monitoring emission system.
4. Other:			
Fugitive Ash .....	Visible emissions for no more than 5 percent of hourly observation period.	Three 1-hour observation periods.	Visible emission test.

<sup>a</sup> All emission limits (except for opacity) are measured at 7 percent oxygen.  
<sup>b</sup> Class I units mean small municipal waste combustion units subject to this subpart that are located at municipal waste combustion plants with an aggregate plant combustion capacity more than 250 tons per day of municipal solid waste. See § 60.1465 for definitions.  
<sup>c</sup> Class II units mean small municipal waste combustion units subject to this subpart that are located at municipal waste combustion plants with an aggregate plant combustion capacity no more than 250 tons per day of municipal solid waste. See § 60.1465 for definitions.  
<sup>d</sup> No monitoring, testing, recordkeeping, or reporting is required to demonstrate compliance with the nitrogen oxides limit for Class II units.

TABLE 2 TO SUBPART AAAAA OF PART 60—CARBON MONOXIDE EMISSION LIMITS FOR NEW SMALL MUNICIPAL WASTE COMBUSTION UNITS

For the following municipal waste combustion units	You must meet the following carbon monoxide limits <sup>a</sup>	Using the following averaging times <sup>b</sup>
1. Fluidized-bed .....	100 parts per million by dry volume .....	4-hour.
2. Fluidized bed, mixed fuel, (wood/refuse-derived fuel) .....	200 parts per million by dry volume .....	24-hour. <sup>c</sup>
3. Mass burn rotary refractory .....	100 parts per million by dry volume .....	4-hour.
4. Mass burn rotary waterwall .....	100 parts per million by dry volume .....	24-hour.
5. Mass burn waterwall and refractory .....	100 parts per million by dry volume .....	4-hour.
6. Mixed fuel-fired (pulverized coal/refuse-derived fuel) .....	150 parts per million by dry volume .....	4-hour.
7. Modular starved-air and excess air .....	50 parts per million by dry volume .....	4-hour.
8. Spreader stoker, mixed fuel-fired (coal/refuse-derived fuel) .....	150 parts per million by dry volume .....	24-hour daily.
9. Stoker, refuse-derived fuel .....	150 parts per million by dry volume .....	24-hour daily.

<sup>a</sup> All limits (except for opacity) are measured at 7 percent oxygen. Compliance is determined by continuous emission monitoring systems.  
<sup>b</sup> Block averages, arithmetic mean. See § 60.1465 for definitions.  
<sup>c</sup> 24-hour block average, geometric mean. See § 60.1465 for definitions.